



# SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)  
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956  
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



## 7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation:

The College Campus has facilities for alternate sources of energy and energy conservation. The Management, the staff members and the students are committed to maintaining an eco-friendly atmosphere. The classrooms in our Campus are spacious, well lighted and ventilated to reduce the usage of electricity during daytime. Instruction boards about Electricity Consumption are displayed in various places to minimize the consumption of electricity. The essential initiatives have been taken to create awareness about the energy crisis, energy consumption and effects of carbon emission.

### I. Use of renewable energy - Solar Energy

#### 1. Renewable Energy (Solar Energy) Utilization

Solar street lights have been installed in the Campus to trap solar energy. This initiative has helped to reduce power consumption. There are Four 10W LED Solar Street Lights in our College Campus for the worth of Rs. 10,8000/.



**Four 10W LED Solar Street Lights in Sengunthar Engineering College Campus**

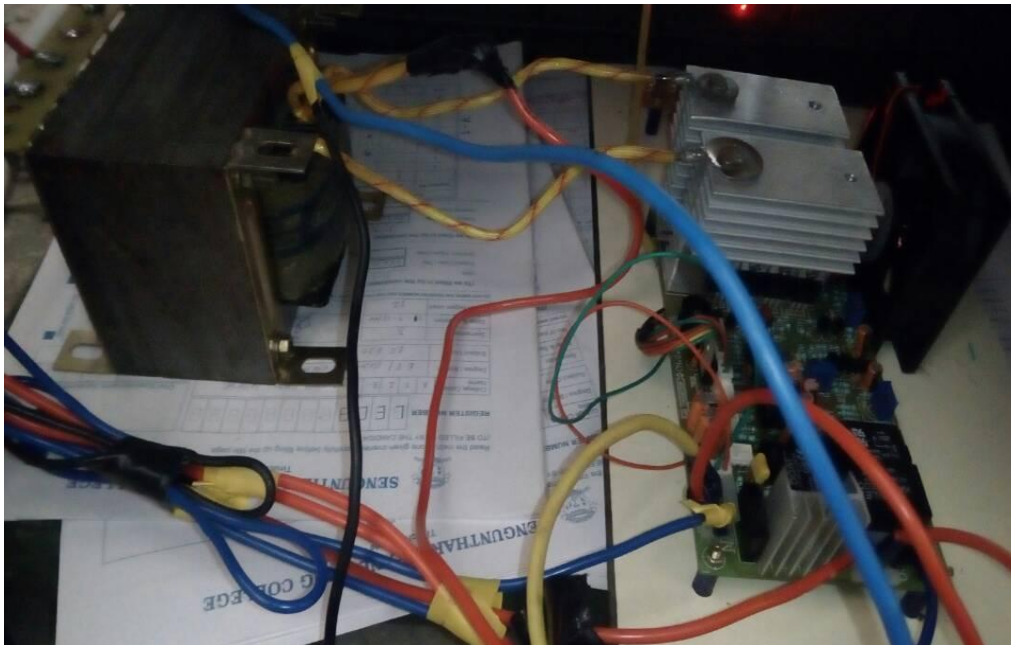
2. “**SOLAR INVERTER**” is designed and installed at the department of Electrical and Electronics by our final year B.E. – EEE students.



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### 3. Solar Powered Electrical Bicycle

Solar powered electric bicycle was developed by the Mechanical Department students and it was used inside the campus to create awareness about e-vehicles among the students and for **Carbon neutrality** inside the campus. It is environment friendly and prevents pollution.



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**Solar Powered Electrical Bicycle**

## II. Sensor-based energy conservation

### 1. Sensor Based Energy Conservation

Project done by Third year BE Electrical and Electronics Engineering Automatic Street Light ON OFF using Sensor method. This project can be used in real life because it can save electricity. Two kinds of sensors will be used which are light sensor and photoelectric sensor. The light sensor will detect darkness to activate the ON/OFF switch, so the streetlights will be ready to turn on and the photoelectric sensor will detect movement to activate the streetlights.



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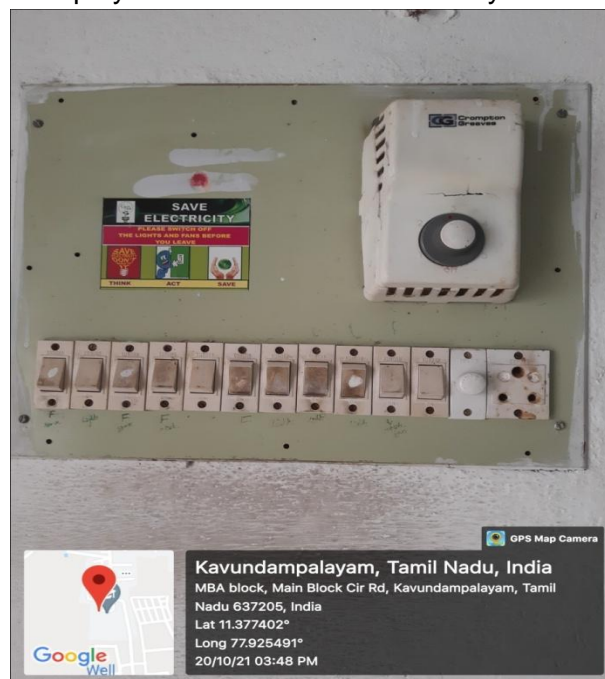
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**Automatic Street Light ON OFF using Sensor method**

2. Instruction boards were displayed to conserve the Electricity in the college campus.



III. Use of LED bulbs / power-efficient equipment





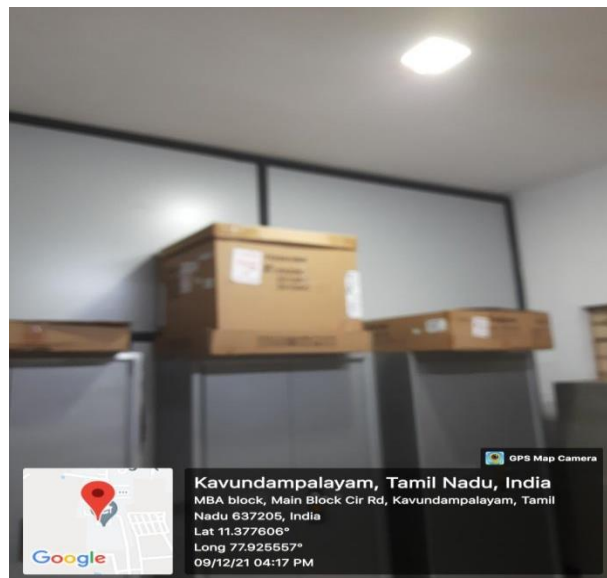
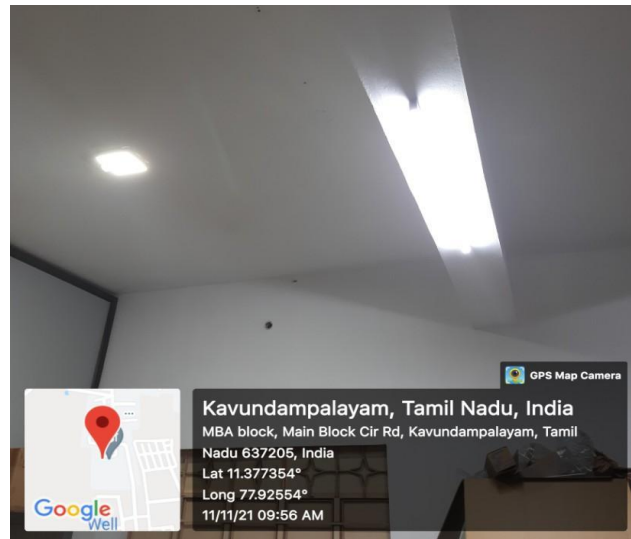
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LED bulbs are used in the street lights, office and laboratories and energy efficient desktops and equipment are used to reduce the energy consumption.



**LED lights in the CoE office**

